

51/16
51. GRINDING AND POLISHING.
Metal,
Sheet Metal and Wire.

Sheet Metal and Wire



Accepted 4 Div. 2721
Wipers

G. L. P.

A.D. 1874, 19th MAY. N° 1782.

Cleaning Tin Plates.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Lewis Griffiths at the Office of the Commissioners of Patents, with his Petition, on the 19th May 1874.

I, LEWIS GRIFFITHS, of Swansea, in the County of Glamorgan, Engine
5 Fitter, do hereby declare the nature of the said Invention for "IMPROVED
MACHINERY FOR CLEANING TIN PLATES," to be as follows:—

The object of this Invention is to provide a machine which will rapidly and efficiently clean the surfaces of tin plates after they have left the bath. To this end I employ an arrangement of rotary brushes
10 for acting upon both sides of the plates at the same time, which plates are passed between the brushes by means of nipping rollers. By preference I use two pairs of cylindrical brushes, over which hoppers or bins are placed for supplying clean bran thereto. The pairs of rollers are respectively enclosed in a continuation of these hoppers, and below
15 the rollers are bins for receiving the waste bran. In front of the first pair of brushes is a pair of feed rolls, which receives from a grid or platform the plates to be cleaned, and passes them between the first pair of rotary brushes, which are rotated at a greater speed than the feed rolls. Between the pairs of brushes is a second pair of rolls, which pass

Griffiths' Improved Machinery for Cleaning Tin Plates.

the plates forward as they are partially cleaned by the first pair of brushes to the second pair, and then by their rapid rotation complete the cleaning operation. Beyond this second pair of brushes is a pair of delivery rolls, which take hold of the plates and discharge them on to a grid or platform prepared to receive them. The hoppers are provided 5 with slide valves for regulating the supply of bran to the brushes, and below the brushes are throttle valves for regulating the discharge of the waste bran to the bins below.

To prevent the waste bran escaping through the openings prepared for the passage of the plates, hinged wipers are provided with back pressure 10 springs, which will bear upon the plates and keep back the bran within the trunk of the hoppers.

The machine may be operated by a driving strap and pulley from any prime mover.

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